



# results of BLAST

## BLASTP 2.2.5 [Nov-16-2002]

### Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1045161355-05206-4482

### Query=

(30 letters)

**Database:** All non-redundant GenBank CDS translations+PDB+SwissProt+PIR+PRF

1,336,920 sequences; 428,153,035 total letters

If you have any problems or questions with the results of this search please refer to the [BLAST FAQs](#)

[Taxonomy reports](#)

## Distribution of 1 Blast Hits on the Query Sequence

Mouse-over to show defline and scores. Click to show alignments

1\_14706

0

Sequences producing significant alignments:

Score E  
(bits) Value

gi|4378804|gb|AAD19696.1| hemoglobin beta chain [Homo sapiens] 31 4.2

### Alignments

Get selected sequences

Select all

Deselect all

☐ >gi|4378804|gb|AAD19696.1| hemoglobin beta chain [Homo sapiens]  
Length = 147

Score = 31.2 bits (69), Expect = 4.2

Identities = 12/13 (92%), Positives = 12/13 (92%)

Query: 9 RFLVVYPWTQRFL 21

R LVVYPWTQRFL

Sbjct: 31 RLLVVYPWTQRFL 43 -Hbβ

Database: All non-redundant GenBank CDS  
translations+PDB+SwissProt+PIR+PRF  
Posted date: Feb 12, 2003 12:52 AM  
Number of letters in database: 428,153,035  
Number of sequences in database: 1,336,920

Lambda	K	H
0.336	0.147	0.586

Gapped

Lambda	K	H
0.267	0.0410	0.140

Matrix: BLOSUM62

Gap Penalties: Existence: 11, Extension: 1

Number of Hits to DB: 24,540,963

Number of Sequences: 1336920

Number of extensions: 393866

Number of successful extensions: 3075

Number of sequences better than 10.0: 1

Number of HSP's better than 10.0 without gapping: 1

Number of HSP's successfully gapped in prelim test: 0

Number of HSP's that attempted gapping in prelim test: 3072

Number of HSP's gapped (non-prelim): 3

length of query: 30

length of database: 428,153,035

effective HSP length: 6

effective length of query: 24

effective length of database: 420,131,515

effective search space: 10083156360

effective search space used: 10083156360

T: 11

A: 40

X1: 15 ( 7.3 bits)

X2: 38 (14.6 bits)

X3: 64 (24.7 bits)

S1: 39 (21.7 bits)

S2: 66 (30.0 bits)





PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books
Search Protein		<input checked="" type="checkbox"/> for					<input type="button" value="Go"/>	<input type="button" value="Clear"/>
		Limits	Preview/Index	History	Clipboard		Details	
<input type="button" value="Display"/>	default	<input checked="" type="checkbox"/> Show: 20	<input type="button" value="Send to"/>	File	<input type="button" value="Get Subsequence"/>			

☐ 1: AAD19696. hemoglobin beta c...[gi:4378804]

BLink, Domains, Links

LOCUS AAD19696 147 aa linear PRI 09-MAR-1999  
 DEFINITION hemoglobin beta chain [Homo sapiens].  
 ACCESSION AAD19696  
 VERSION AAD19696.1 GI:4378804  
 DBSOURCE locus AF117710 accession AF117710.1  
 KEYWORDS .  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (residues 1 to 147)  
 AUTHORS Kutlar,F., Harbin,J., Brisco,J. and Kutlar,A.  
 TITLE Rapid detection of electrophoretically silent, unstable human  
 hemoglobin 'Louisville', (Beta; Phe 42 Leu/TTT to CTT) by cDNA  
 sequencing of mRNA  
 JOURNAL Unpublished  
 REFERENCE 2 (residues 1 to 147)  
 AUTHORS Kutlar,F., Harbin,J., Brisco,J. and Kutlar,A.  
 TITLE Direct Submission  
 JOURNAL Submitted (04-JAN-1999) Medicine, Medical College of Georgia, Laney  
 Walker, AC-1000, Hemoglobin Lab., Augusta, GA 30912, USA  
 COMMENT Method: conceptual translation.  
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 /db\_xref="taxon:9606"  
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 /map="11p15.5"  
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 /tissue\_type="whole blood"  
 /note="unstable hemoglobin had been separated from normal  
 beta chain, by the reversed phase HPLC on a C4 column and  
 eluted between the beta chain and alpha chain on the  
 chromatogram"  
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 /product="hemoglobin beta chain"  
 /name="unstable hemoglobin; hemoglobin 'Louisville'"  
 CDS 1..147  
 /gene="HBB"  
 /coded\_by="AF117710.1:31..474"  
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 1 mvhltppeeks avtalwgkvn vdevggealg rllvvypwtg rflesfgdls tpdavmgnpk  
 61 vkahgkklvg afsdglahld nlkgtfatls elhcdklhvd penfrllgnv lvcvlahhfg  
 121 keftppvqaa yqkvvagvan alahkyh  
 //

Revised: August 5, 2002.

[PubMed](#)
[Nucleotide](#)
[Protein](#)
[Genome](#)
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☒ for

☒ Show: 20

☐ 1: AAD19696. hemoglobin beta c...[gi:4378804]

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 KEYWORDS  
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
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 /db\_xref="taxon:9606"  
 /chromosome="11"  
 /map="11p15.5"  
 /cell\_type="reticulocyte"  
 /tissue\_type="whole blood"  
 /note="unstable hemoglobin had been separated from normal  
 beta chain, by the reversed phase HPLC on a C4 column and  
 eluted between the beta chain and alpha chain on the  
 chromatogram"  
Protein 1..147  
 /product="hemoglobin beta chain"  
 /name="unstable hemoglobin; hemoglobin 'Louisville'"  
CDS 1..147  
 /gene="HBB"  
 /coded\_by="AF117710.1:31..474"  
 ORIGIN  
 1 mvhltppeeks avtalwgkvn vdevggealg rllvvypwtg rflesfgdls tpdavmgnpk  
 61 vkahgkklvg afsdglahld nlkgtfatls elhcdklhvd penfrllgnv lvcvlahhfg  
 121 keftppvqaa yqkvvagvan alahkyh  
 //

Revised: August 5, 2002.

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NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
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=> FILE .RECEPTOR  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

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=> S LVVYPWTQRF  
L1 6 LVVYPWTQRF

=> DUP REM  
ENTER L# LIST OR (END):L1  
PROCESSING COMPLETED FOR L1  
L2 3 DUP REM L1 (3 DUPLICATES REMOVED)

=> D 1

L2	ANSWER 1 OF 3	MEDLINE	DUPLICATE 1
AN	1999026724	MEDLINE	
DN	99026724	PubMed ID: 9809196	
TI	Haemorphin peptides may be endogenous ligands for brain angiotensin AT4 receptors.		
AU	Moeller I; Chai S Y; Smith I; Lew R; Mendelsohn F A		
CS	Howard Florey Institute of Experimental Physiology and Medicine, University of Melbourne, Parkville, Victoria, Australia.. i.moeller@hfi.unimelb.edu.au		
SO	CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY. SUPPLEMENT, (1998 Nov) 25 S68-71. Ref: 45 Journal code: 7611484. ISSN: 0143-9294.		
CY	Australia		
DT	Journal; Article; (JOURNAL ARTICLE) General Review; (REVIEW) (REVIEW, TUTORIAL)		
LA	English		

FS Priority Journals  
EM 199901  
ED Entered STN: 19990209  
Last Updated on STN: 19990209  
Entered Medline: 19990128

=> D 2

L2 ANSWER 2 OF 3 MEDLINE DUPLICATE 2  
AN 97407788 MEDLINE  
DN 97407788 PubMed ID: 9264537  
TI Peroxynitrite-mediated nitration of peptides: characterization of the products by electrospray and combined gas chromatography-mass spectrometry.  
AU Yi D; Smythe G A; Blount B C; Duncan M W  
CS Biomedical Mass Spectrometry Unit, University of New South Wales, Sydney, Australia.  
SO ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (1997 Aug 15) 344 (2) 253-9.  
Journal code: 0372430. ISSN: 0003-9861.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; AIDS  
EM 199709  
ED Entered STN: 19970922  
Last Updated on STN: 19970922  
Entered Medline: 19970908

=> D 3

L2 ANSWER 3 OF 3 MEDLINE DUPLICATE 3  
AN 94311913 MEDLINE  
DN 94311913 PubMed ID: 8037741  
TI Isolation of endogenous hemorphin-related hemoglobin fragments from bovine brain.  
AU Karelin A A; Philippova M M; Karelina E V; Ivanov V T  
CS Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow.  
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1994 Jul 15) 202 (1) 410-5.  
Journal code: 0372516. ISSN: 0006-291X.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199408  
ED Entered STN: 19940825  
Last Updated on STN: 19940825  
Entered Medline: 19940815

=> FILE .RECEPTOR  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
7.82	8.03

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 12:56:44 ON 13 FEB 2003

FILE 'LIFESCI' ENTERED AT 12:56:44 ON 13 FEB 2003

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FILE 'BIOSIS' ENTERED AT 12:56:44 ON 13 FEB 2003  
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=> S LEU AND VAL AND VAL AND TYR AND PRO AND TRP AND THR AND GLN AND ARG AND PHE  
L3 187 LEU AND VAL AND VAL AND TYR AND PRO AND TRP AND THR AND GLN AND  
ARG AND PHE

=> DUP REM L3  
PROCESSING COMPLETED FOR L3  
L4 112 DUP REM L3 (75 DUPLICATES REMOVED)

=> S LEU VAL VAL TYR PRO TRP THR GLN ARG PHE  
L5 9 LEU VAL VAL TYR PRO TRP THR GLN ARG PHE

=> DUP REM L5  
PROCESSING COMPLETED FOR L5  
L6 4 DUP REM L5 (5 DUPLICATES REMOVED)

=> D 1

L6 ANSWER 1 OF 4 MEDLINE DUPLICATE 1  
AN 2000171746 MEDLINE  
DN 20171746 PubMed ID: 10704729  
TI Isolation of the opioid peptide Leu-Val-Val-hemorphin-7 from  
bronchoalveolar lavage fluid of a patient with non-small cell lung cancer.  
AU Duethman D; Dewan N; Conlon J M  
CS Regulatory Peptide Center, Department of Biomedical Sciences, Creighton  
University Medical School, Omaha, Nebraska 68178, USA.  
SO PEPTIDES, (2000 Jan) 21 (1) 137-42.  
Journal code: 8008690. ISSN: 0196-9781.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200004  
ED Entered STN: 20000505  
Last Updated on STN: 20000505  
Entered Medline: 20000424

=> D 2

L6 ANSWER 2 OF 4 MEDLINE DUPLICATE 2  
AN 97309334 MEDLINE  
DN 97309334 PubMed ID: 9166749  
TI The globin fragment LVV-hemorphin-7 is an endogenous ligand for the AT4  
receptor in the brain.  
AU Moeller I; Lew R A; Mendelsohn F A; Smith A I; Brennan M E; Tetaz T J;  
Chai S Y  
CS Howard Florey Institute of Experimental Physiology and Medicine,  
Parkville, Victoria, Australia.  
SO JOURNAL OF NEUROCHEMISTRY, (1997 Jun) 68 (6) 2530-7.  
Journal code: 2985190R. ISSN: 0022-3042.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199706  
ED Entered STN: 19970630  
Last Updated on STN: 19970630  
Entered Medline: 19970617

=> D 3



L6 ANSWER 3 OF 4 MEDLINE DUPLICATE 3  
 AN 96198718 MEDLINE  
 DN 96198718 PubMed ID: 8636875  
 TI Analysis in gingival crevicular fluid of two oligopeptides derived from human hemoglobin beta-chain.  
 AU Makinen K K; Sewon L; Makinen P l  
 CS Department of Biologic and Materials Sciences, School of Dentistry, University of Michigan, Ann Arbor, USA.  
 NC 5 P60 AR20557 (NIAMS)  
 SO JOURNAL OF PERIODONTAL RESEARCH, (1996 Jan) 31 (1) 43-6.  
 Journal code: 0055107. ISSN: 0022-3484.  
 CY Denmark  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Dental Journals; Priority Journals  
 EM 199607  
 ED Entered STN: 19960719  
 Last Updated on STN: 19980206  
 Entered Medline: 19960710

=> D 4

L6 ANSWER 4 OF 4 MEDLINE DUPLICATE 4  
 AN 81063295 MEDLINE  
 DN 81063295 PubMed ID: 6776995  
 TI Isolation and structure of several peptides from porcine hypothalami.  
 AU Chang R C; Huang W Y; Redding T W; Arimura A; Coy D H; Schally A V  
 NC AM 07467 (NIADDK)  
 AM 09094 (NIADDK)  
 SO BIOCHIMICA ET BIOPHYSICA ACTA, (1980 Oct 21) 625 (2) 266-73.  
 Journal code: 0217513. ISSN: 0006-3002.  
 CY Netherlands  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 198102  
 ED Entered STN: 19900316  
 Last Updated on STN: 19970203  
 Entered Medline: 19810219

=> D 5

4 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE  
 The answer numbers requested are not in the answer set.  
 ENTER ANSWER NUMBER OR RANGE (1):4

L6 ANSWER 4 OF 4 MEDLINE DUPLICATE 4  
 AN 81063295 MEDLINE  
 DN 81063295 PubMed ID: 6776995  
 TI Isolation and structure of several peptides from porcine hypothalami.  
 AU Chang R C; Huang W Y; Redding T W; Arimura A; Coy D H; Schally A V  
 NC AM 07467 (NIADDK)  
 AM 09094 (NIADDK)  
 SO BIOCHIMICA ET BIOPHYSICA ACTA, (1980 Oct 21) 625 (2) 266-73.  
 Journal code: 0217513. ISSN: 0006-3002.  
 CY Netherlands  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 198102  
 ED Entered STN: 19900316  
 Last Updated on STN: 19970203

Entered Medline: 19810219

=> LOGOFF HOLD  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
4.18	12.21

FULL ESTIMATED COST

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 12:59:40 ON 13 FEB 2003

Connecting via Winsock to STN

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LOGINID:SSSPTA1647SXW

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NEWS	42	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	43	Feb 13	CANCERLIT is no longer being updated

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CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
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=> FILE .RECEPTOR

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.31	2.31

FILE 'MEDLINE' ENTERED AT 14:41:29 ON 13 FEB 2003

FILE 'LIFESCI' ENTERED AT 14:41:29 ON 13 FEB 2003  
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=> S HEMORPHINS

L1 81 HEMORPHINS

=> DUP REM L1

PROCESSING COMPLETED FOR L1

L2 45 DUP REM L1 (36 DUPLICATES REMOVED)

=> S L1 AND LVVYPWTQRF

L3 2 L1 AND LVVYPWTQRF

=> D 1

L3 ANSWER 1 OF 2 MEDLINE  
AN 94311913 MEDLINE  
DN 94311913 PubMed ID: 8037741  
TI Isolation of endogenous hemorphin-related hemoglobin fragments from bovine brain.  
AU Karelina A A; Philippova M M; Karelina E V; Ivanov V T  
CS Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow.  
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1994 Jul 15) 202 (1) 410-5.  
Journal code: 0372516. ISSN: 0006-291X.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199408  
ED Entered STN: 19940825

Last Updated on STN: 19940825  
Entered Medline: 19940815

=> D 2

L3 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1994:394783 BIOSIS  
DN PREV199497407783  
TI Isolation of endogenous hemorphin-related hemoglobin fragments from bovine brain.  
AU Karelin, Andrey A.; Philippova, Marina M.; Karelina, Elena V.; Ivanov, Vadim T.  
CS Shemyakin and Ovchinnikov Inst. Bioorganic Chem., Russian Acad. Sci., Moscow Russia  
SO Biochemical and Biophysical Research Communications, (1994) Vol. 202, No. 1, pp. 410-415.  
ISSN: 0006-291X.  
DT Article  
LA English

=> s hemorphin and lvvypwtqrf  
L4 5 HEMORPHIN AND LVVYPWTQRF

=> dup rem l4  
PROCESSING COMPLETED FOR L4  
L5 3 DUP REM L4 (2 DUPLICATES REMOVED)

=> d 1

L5 ANSWER 1 OF 3 MEDLINE DUPLICATE 1  
AN 1999026724 MEDLINE  
DN 99026724 PubMed ID: 9809196  
TI Haemorphin peptides may be endogenous ligands for brain angiotensin AT4 receptors.  
AU Moeller I; Chai S Y; Smith I; Lew R; Mendelsohn F A  
CS Howard Florey Institute of Experimental Physiology and Medicine, University of Melbourne, Parkville, Victoria, Australia..  
i.moeller@hfi.unimelb.edu.au  
SO CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY. SUPPLEMENT, (1998 Nov) 25 S68-71. Ref: 45  
Journal code: 7611484. ISSN: 0143-9294.  
CY Australia  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 199901  
ED Entered STN: 19990209  
Last Updated on STN: 19990209  
Entered Medline: 19990128

=> d 2

L5 ANSWER 2 OF 3 MEDLINE  
AN 97407788 MEDLINE  
DN 97407788 PubMed ID: 9264537  
TI Peroxynitrite-mediated nitration of peptides: characterization of the products by electrospray and combined gas chromatography-mass spectrometry.  
AU Yi D; Smythe G A; Blount B C; Duncan M W

CS Biomedical Mass Spectrometry Unit, University of New South Wales, Sydney, Australia.  
 SO ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (1997 Aug 15) 344 (2) 253-9.  
 Journal code: 0372430. ISSN: 0003-9861.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; AIDS  
 EM 199709  
 ED Entered STN: 19970922  
 Last Updated on STN: 19970922  
 Entered Medline: 19970908

=> d 3

L5 ANSWER 3 OF 3 MEDLINE DUPLICATE 2  
 AN 94311913 MEDLINE  
 DN 94311913 PubMed ID: 8037741  
 TI Isolation of endogenous **hemorphin**-related hemoglobin fragments from bovine brain.  
 AU Karelin A A; Philippova M M; Karelina E V; Ivanov V T  
 CS Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow.  
 SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1994 Jul 15) 202 (1) 410-5.  
 Journal code: 0372516. ISSN: 0006-291X.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199408  
 ED Entered STN: 19940825  
 Last Updated on STN: 19940825  
 Entered Medline: 19940815

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